

10/009792

Fig. 1

1	ATG	GCT	GGA	CCT	GCC	ACC	CAG	AGC	CCC	ATG	AAG	CTG	ATG	GCC	CTG	45
46	CAG	CTG	CTG	CTG	TGG	AGT	GCA	CTC	TGG	ACA	GTG	CAG	GAA	GCC	ACC	90
91	CCC	CTG	GGC	CCT	GCC	AGC	TCC	CTG	CCC	CAG	AGC	TTC	CTG	CTC	AAG	135
136	TGC	TTA	GAG	CAA	GTG	AGG	AAG	ATC	CAG	GGC	GAT	GGC	GCA	GCG	CTC	180
181	CAG	GAG	AAG	CTG	GCA	GGC	TGC	TTG	AGC	CAA	CTC	CAT	AGC	GGC	CTT	225
226	TTC	CTC	TAC	CAG	GGG	CTC	CTG	CAG	GCC	CTG	GAA	GGG	ATC	TCC	CCC	270
271	GAG	TTG	GGT	CCC	ACC	TTG	GAC	ACA	CTG	CAG	CTG	GAC	GTC	GCC	GAC	315
316	TTT	GCC	ACC	ACC	ATC	TGG	CAG	CAG	ATG	GAA	GAA	CTG	GGA	ATG	GCC	360
361	CCT	GCC	CTG	CAG	CCC	ACC	CAG	GGT	GCC	ATG	CCG	GCC	TTC	GCC	TCT	405
406	GCT	TTC	CAG	CGC	CGG	GCA	GGA	GGG	GTC	CTA	GTT	GCC	TCC	CAT	CTG	450
451	CAG	AGC	TTC	CTG	GAG	GTG	TCG	TAC	CGC	GTT	CTA	CGC	CAC	CTT	GCC	495
496	CAG	CCC	TAA	TAA												508

stop codon (see: SEQ ID NO: 17)

Fig. 2

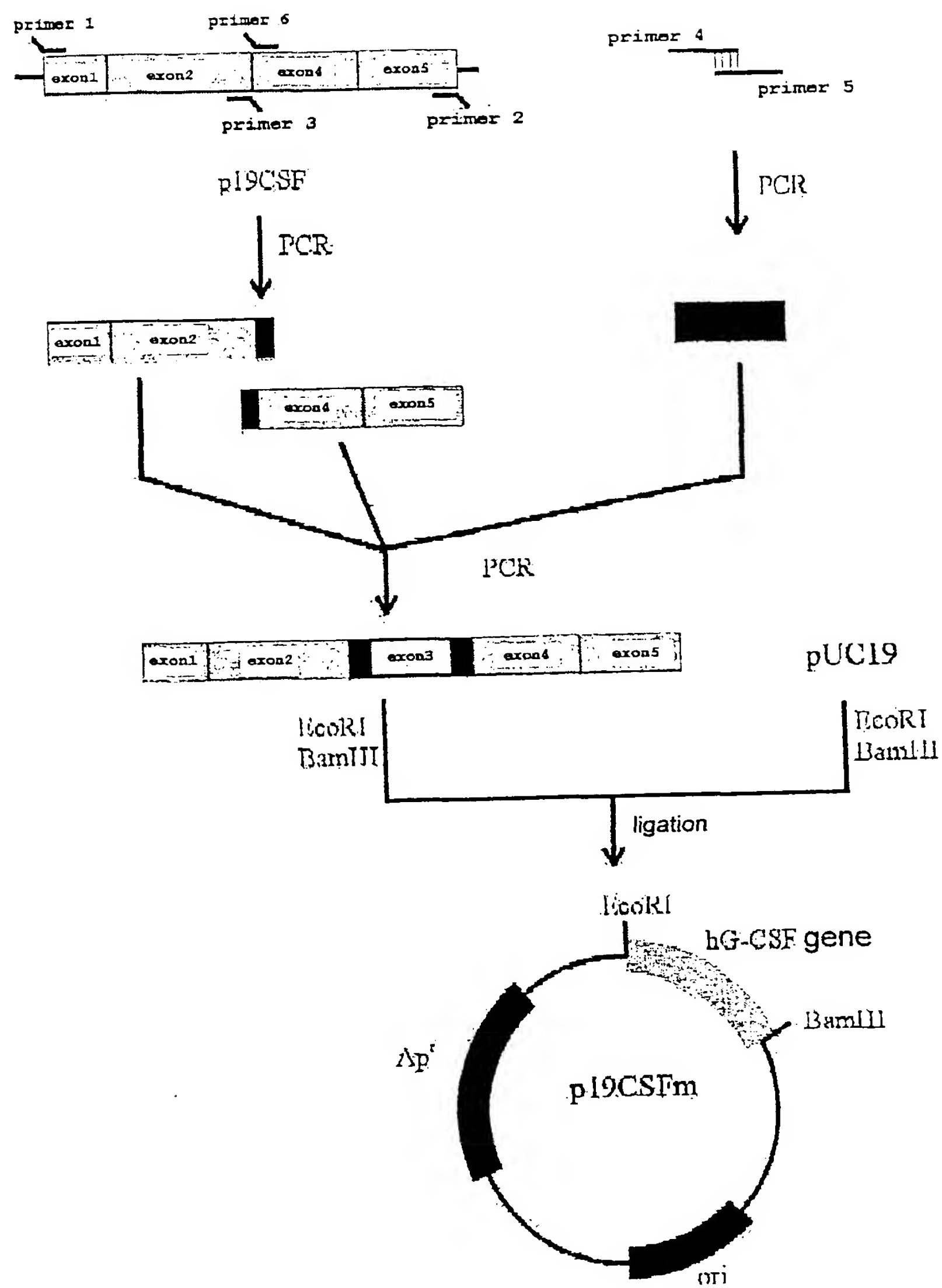


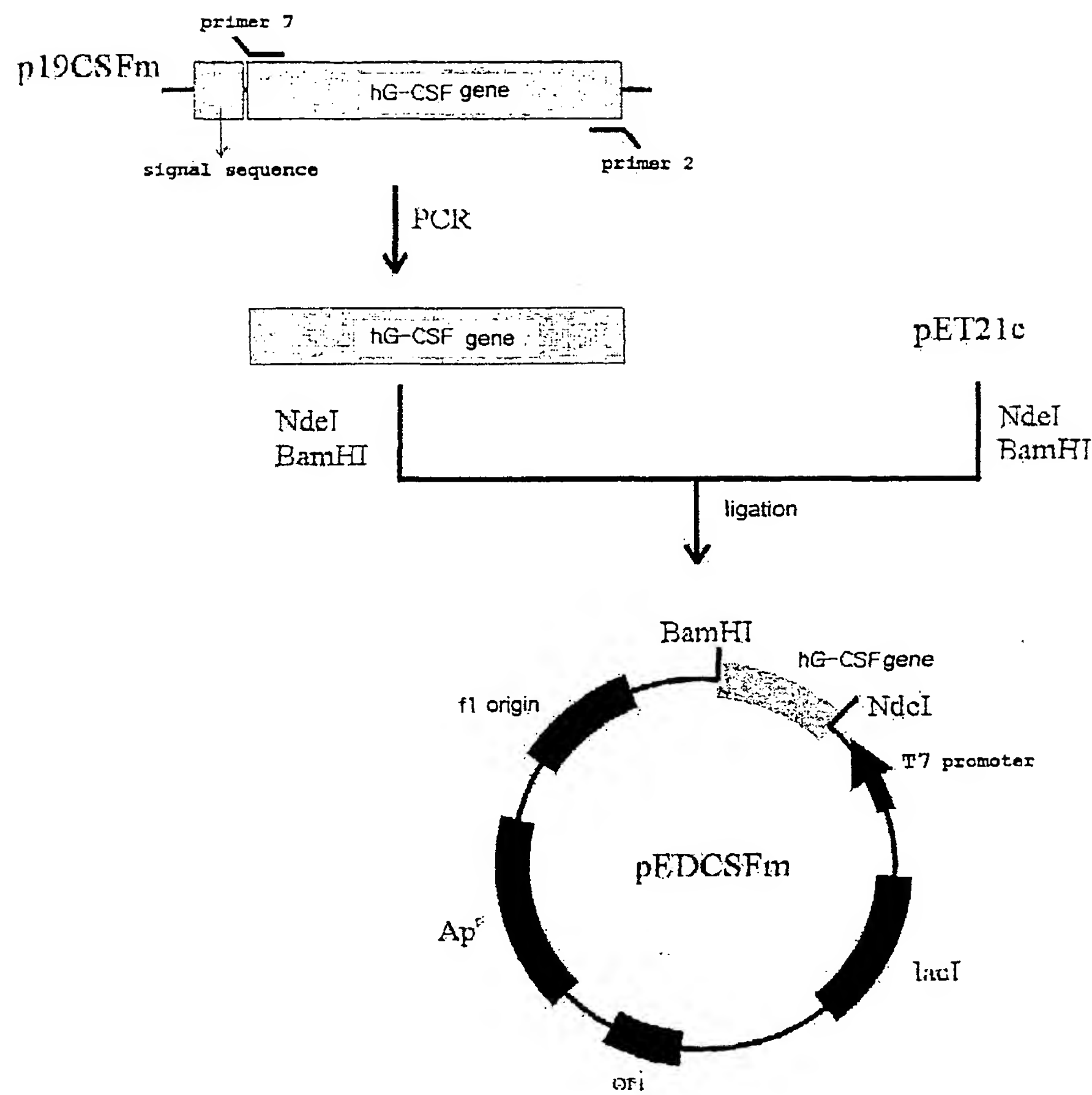
Fig. 3

1	ATG	GCT	GGA	CCT	GCC	ACC	CAG	AGC	CCC	ATG	AAG	CTG	ATG	GCC	CTG	45
46	CAG	CTG	CTG	CTG	TGG	AGT	GCA	CTC	TGG	ACA	GTG	CAG	GAA	GCC	ACC	90
91	CCC	CTG	GGC	CCT	GCC	AGC	TCC	CTG	CCC	CAG	AGC	TTC	CTG	CTC	AAG	135
136	TGC	TTA	GAG	CAA	GTG	AGG	AAG	ATC	CAG	GGC	GAT	GGC	GCA	GCG	CTC	180
181	CAG	GAG	AAG	CTG	TGT	GCC	ACC	TAC	AAG	CTG	TGC	CAC	CCC	GAG	GAG	225
226	CTG	GTG	CTG	CTC	GGA	CAC	TCT	CTG	GGC	ATC	CCC	TGG	GCT	CCC	CTG	270
271	AGC	AGC	TGC	CCC	AGC	CAG	GCC	CTG	CAG	CTG	GCA	GGC	TGC	TTG	AGC	315
316	CAA	CTC	CAT	AGC	GGC	CTT	TTC	CTC	TAC	CAG	GGG	CTC	CTG	CAG	GCC	360
361	CTG	GAA	GGG	ATC	TCC	CCC	GAG	TTG	GGT	CCC	ACC	TTG	GAC	ACA	CTG	405
406	CAG	CTG	GAC	GTC	GCC	GAC	TTT	GCC	ACC	ACC	ATC	TGG	CAG	CAG	ATG	450
451	GAA	GAA	CTG	GGA	ATG	GCC	CCT	GCC	CTG	CAG	CCC	ACC	CAG	GGT	GCC	495
496	ATG	CCG	GCC	TTC	GCC	TCT	GCT	TTC	CAG	CGC	CGG	GCA	GGA	GGG	GTC	540
541	CTA	GTT	GCC	TCC	CAT	CTG	CAG	AGC	TTC	CTG	GAG	GTG	TCG	TAC	CGC	585
586	GTT	CTA	CGC	CAC	CTT	GCC	CAG	CCC	TAA	TAA						616

(see: SEQ ID NO: 18)

(see: SEQ ID NO: 19)

Fig. 4



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Fig. 5

1	ATG	ACC	CCC	CTG	GGC	CCT	GCC	AGC	TCC	CTG	CCC	CAG	AGC	TTC	CTG	15	45
	Met	Thr	Pro	Leu	Gly	Pro	Ala	Ser	Ser	Leu	Pro	Gln	Ser	Phe	Leu		
16	CTC	AAG	TGC	TTA	GAG	CAA	GTG	AGG	AAG	ATC	CAG	GGC	GAT	GGC	GCA	30	90
46	Leu	Lys	Cys	Leu	Glu	Gln	Val	Arg	Lys	Ile	Gln	Gly	Asp	Gly	Ala		
31	GCG	CTC	CAG	GAG	AAG	CTG	TGT	GCC	ACC	TAC	AAG	CTG	TGC	CAC	CCC	45	135
91	Ala	Leu	Gln	Glu	Lys	Leu	Cys	Ala	Thr	Tyr	Lys	Leu	Cys	His	Pro		
46	GAG	GAG	CTG	GTG	CTG	CTC	GGA	CAC	TCT	CTG	GGC	ATC	CCC	TGG	GCT	60	180
136	Glu	Glu	Leu	Val	Leu	Leu	Gly	His	Ser	Leu	Gly	Ile	Pro	Trp	Ala		
61	CCC	CTG	AGC	AGC	TGC	CCC	AGC	CAG	GCC	CTG	CAG	CTG	GCA	GGC	TGC	75	225
181	Pro	Leu	Ser	Ser	Cys	Pro	Ser	Gln	Ala	Leu	Gln	Leu	Ala	Gly	Cys		
76	TTG	AGC	CAA	CTC	CAT	AGC	GGC	CTT	TTC	CTC	TAC	CAG	GGG	CTC	CTG	90	270
226	Leu	Ser	Gln	Leu	His	Ser	Gly	Leu	Phe	Leu	Tyr	Gln	Gly	Leu	Leu		
91	CAG	GCC	CTG	GAA	GGG	ATC	TCC	CCC	GAG	TTG	GGT	CCC	ACC	TTG	GAC	105	315
271	Gln	Ala	Leu	Glu	Gly	Ile	Ser	Pro	Glu	Leu	Gly	Pro	Thr	Leu	Asp		
106	ACA	CTG	CAG	CTG	GAC	GTC	GCC	GAC	TTT	GCC	ACC	ACC	ATC	TGG	CAG	120	360
316	Thr	Leu	Gln	Leu	Asp	Val	Ala	Asp	Phe	Ala	Thr	Thr	Ile	Trp	Gln		
121	CAG	ATG	GAA	GAA	CTG	GGA	ATG	GCC	CCT	GCC	CTG	CAG	CCC	ACC	CAG	135	405
361	Gln	Met	Glu	Glu	Leu	Gly	Met	Ala	Pro	Ala	Leu	Gln	Pro	Thr	Gln		
136	GGT	GCC	ATG	CCG	GCC	TTC	GCC	TCT	GCT	TTC	CAG	CGC	CGG	GCA	GGA	150	450
406	Gly	Ala	Met	Pro	Ala	Phe	Ala	Ser	Ala	Phe	Gln	Arg	Arg	Ala	Gly		
151	GGG	GTC	CTA	GTT	GCC	TCC	CAT	CTG	CAG	AGC	TTC	CTG	GAG	GTG	TCG	165	495
451	Gly	Val	Leu	Val	Ala	Ser	His	Leu	Gln	Ser	Phe	Leu	Glu	Val	Ser		
166	TAC	CGC	GTT	CTA	CGC	CAC	CTT	GCC	CAG	CCC	TAA	TAA				175	531
496	Tyr	Arg	Val	Leu	Arg	His	Leu	Ala	Gln	Pro	stop codon						

(see: SEQ ID NO: 20)

(see: SEQ ID NO: 21)

Fig. 6

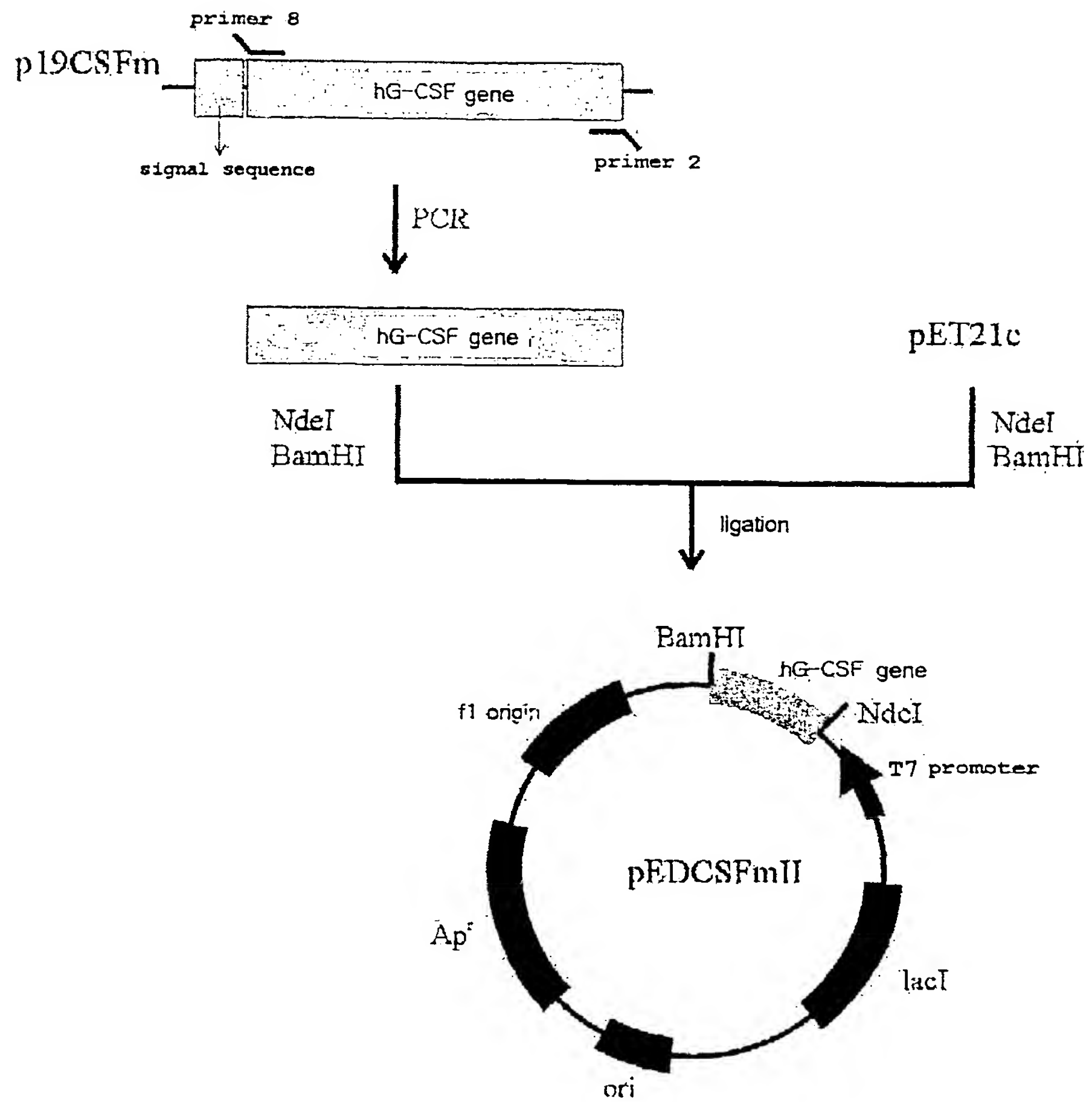


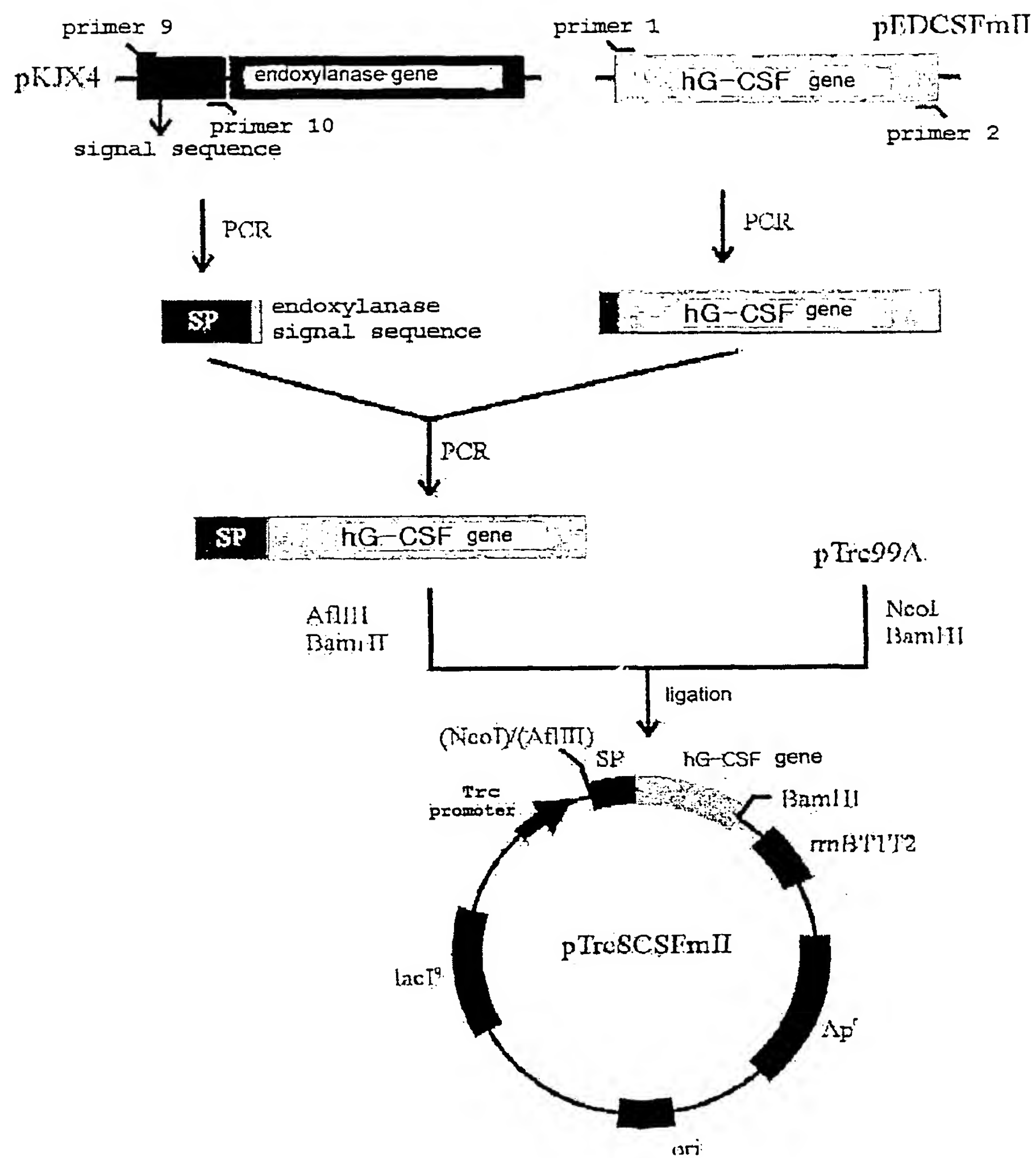
Fig. 7

1 15 45
1 ATG ACT CCG TTA GGT CCA GCC AGC TCC CTG GCC CAG AGC TTC CTG
Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu

(see: SEQ ID NO: 22)

(see: SEQ ID NO: 23)

Fig. 8



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Fig. 9

-28 -14
 1 ATG TTT AAG TTT AAA AAG AAA TTC TTA GTG GGA TTA ACG GCA GCT 45
 Met Phe Lys Phe Lys Lys Lys Phe Leu Val Gly Leu Thr Ala Ala
 -13 -1 +1 2
 46 TTC ATG AGT ATC AGC ATG TTT TCT GCA ACC GCC TCT GCA ACT CCG 90
 Phe Met Ser Ile Ser Met Phe Ser Ala Thr Ala Ser Ala Thr Pro
 3 17
 91 TTA GGT CCA GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG TGC 135
 Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys

(see: SEQ ID NO: 24)

(see: SEQ ID NO: 25)

Fig. 10

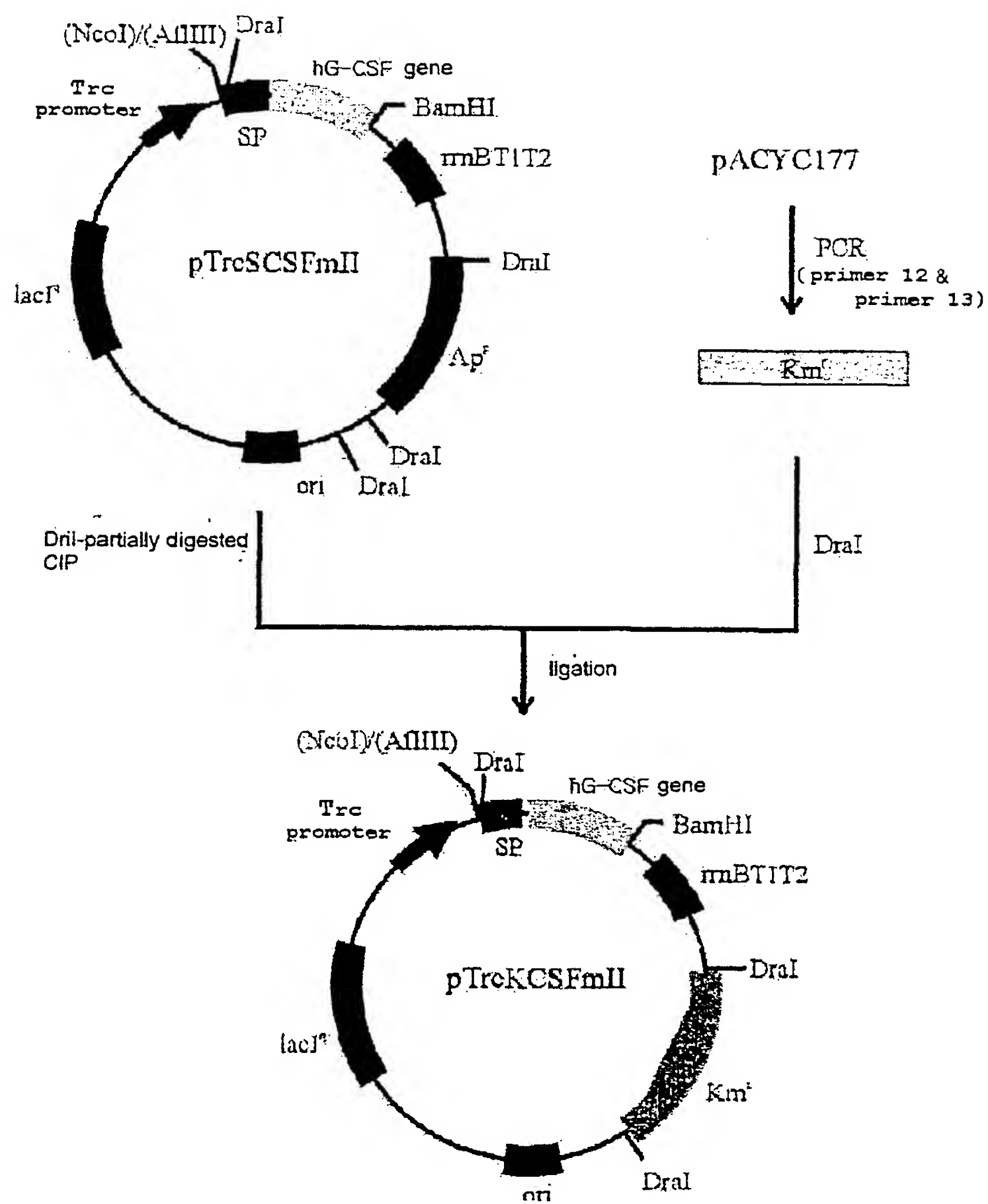


Fig. 11

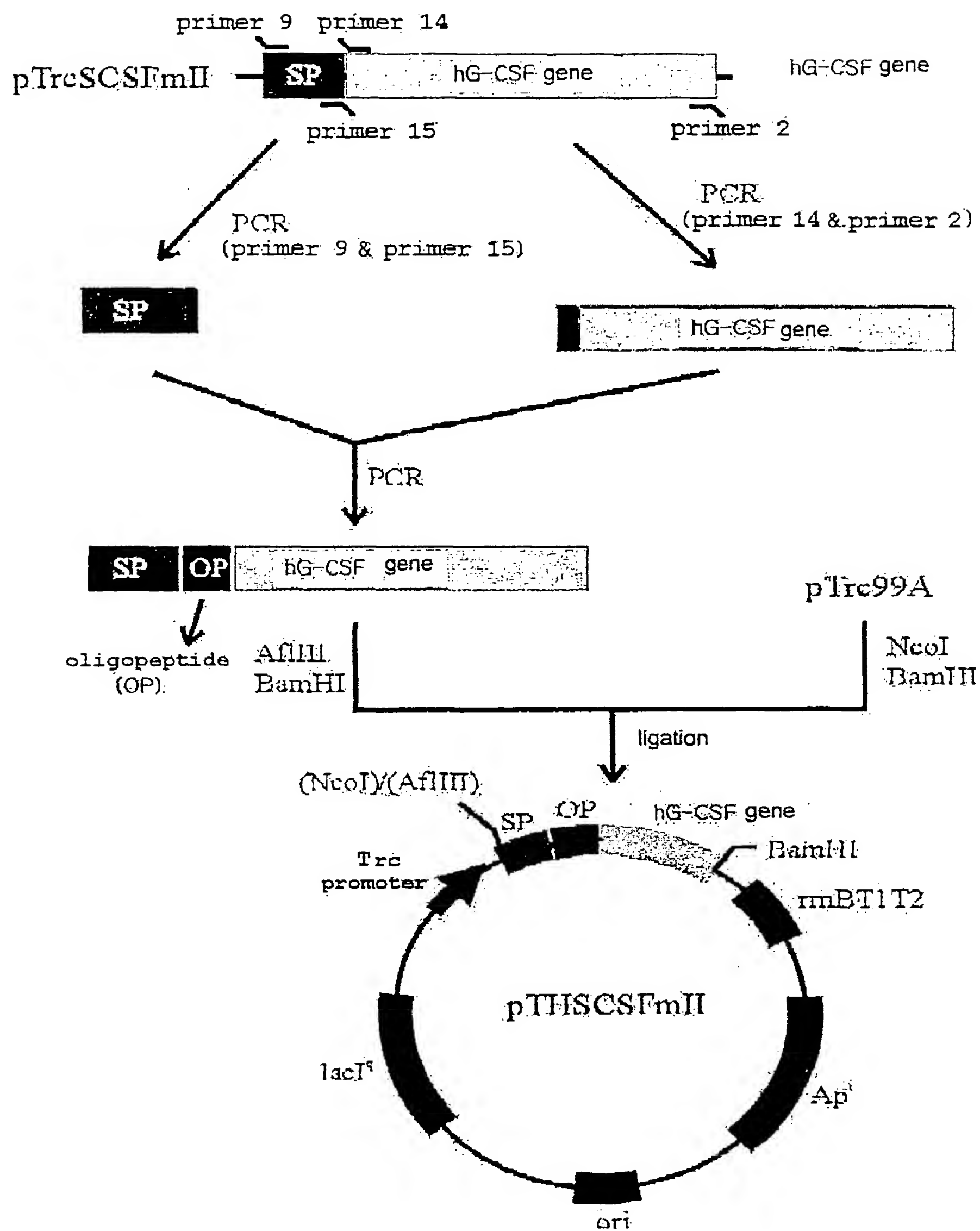


Fig. 12

-28 -14
 1 ATG TTT AAG TTT AAA AAG AAA TTC TTA GTG GGA TTA ACG GCA GCT 45
 Met Phe Lys Phe Lys Lys Lys Phe Leu Val Gly Leu Thr Ala Ala
 -13 -1 +1 2
 46 TTC ATG AGT ATC AGC ATG TTT TCT GCA ACC GCC TCT GCA GCT GGC 90
 Phe Met Ser Ile Ser Met Phe Ser Ala Thr Ala Ser Ala Ala Gly
 3 17
 91 CCG CAC CAT CAC CAT CAC CAT ATC GAG GGA AGG ACT CCG TTA GGT 135
 Pro His His His His His His Ile Glu Gly Arg Thr Pro Leu Gly
 18 32
 136 CCA GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG TGC TTA GAG 180
 Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu Glu

(see: SEQ ID NO: 26)

(see: SEQ ID NO: 27)

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Fig. 13

